

PATENT  
Docket No. 6241.N DV1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Benson et al. ) Group Art Unit: Unassigned  
Serial No.: 09/991,211 ) Examiner: Unassigned  
Confirmation No.: Unassigned )  
Filed: November 21, 2001 )  
For: **CRYSTALLIZATION AND STRUCTURE DETERMINATION OF  
STAPHYLOCOCCUS AUREUS UDP-N-ACETYLENOLPYRUVYLGLUCOSAMINE  
REDUCTASE (*S. aureus* MurB)**

#3  
Plunkett  
5/7/02

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
ATTN: BOX PATENT APPLICATION  
Washington D.C. 20231

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Consideration of each of the documents listed on the attached 1449 form(s) is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 form(s), marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

This application is a divisional of U.S. Patent Application Serial No. 09/632,947 (issued as U.S. Patent No. 6,356,845 on March 12, 2002). In accordance with 37 C.F.R. §1.98(d), copies of documents previously cited by or submitted to the U.S. Patent Office in connection with Applicants' prior application listed above, are not included herewith.

**Information Disclosure Statement**

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Filed: November 21, 2001

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Page 2 of 2

Applicants wish to bring to the Examiner's attention to a GenCore database search on various transposons dated March 9, 2001. As the database search was cited on an 892 form of U.S. Application Serial No. 09/632,947 (issued as Patent U.S. No. 6,356,845 on March 12, 2002), it appears the database search was performed by the Examiner. A copy of the GenCore database search is provided herewith.

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

Respectfully submitted for

**Benson et al.**

By  
Mueiting, Raasch & Gebhardt, P.A.  
P.O. Box 581415  
Minneapolis, MN 55458-1415  
Phone: (612)305-1220  
Facsimile: (612)305-1228  
**Customer Number 26813**

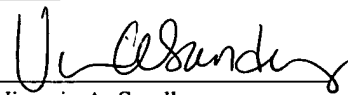


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PATENT TRADEMARK OFFICE

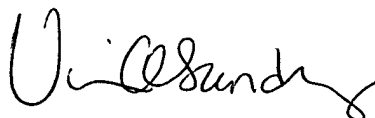
**CERTIFICATE UNDER 37 C.F.R. 1.8:**

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, ATTN: BOX PATENT APPLICATION Washington, D.C. 20231, on this 3<sup>rd</sup> day of APRIL, 2002.



Victoria A. Sandberg

3 April 2002  
Date

By:   
Victoria A. Sandberg  
Reg. No. 41,287  
Direct Dial (612)305-1226

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## U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	X	6,356,845	03/12/02	Benson et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
		EP 786519 A2	07/01/97	Europe				
		EP 899335 A2	03/03/99	Europe				
		WO 00/12678	03/09/00	PCT				
		WO 99/47639	09/23/99	PCT				
		WO 99/47662	09/23/99	PCT				
		WO 01/16292 A2	03/08/01	PCT				

## OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	Document Description
		Arakawa et al., "Theory of Protein Solubility," <i>Methods in Enzymology</i> , 1985; 114:49-76.
		Bartlett et al., "CAVEAT: A program to facilitate the structure-derived design of biologically active molecules," <i>Molecular Recognition: Chemical and Biological Problems</i> , Royal Society of Chemistry, Special Pub No. 78:182-196 (1989).
		Benson et al., "Overexpression, Purification, and Mechanistic Study of UDP-N-Acetylenolpyruvylglucosamine Reductase," <i>Biochemistry</i> . 1993;32:2024-30.
		Benson et al., "Crystallization and preliminary X-ray crystallographic studies of UDP-N-acetylenolpyruvylglucosamine reductase," <i>Protein Science</i> . 1994; 3(7):1125-7.
		Benson et al., "An enzyme-substrate complex involved in bacterial cell wall biosynthesis," <i>Nat Struct Biol</i> . 1995 (8):644-53.

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		Benson et al., "The structure of the substrate-free form of MurB, an essential enzyme for the synthesis of bacterial cell walls," <i>Structure</i> . 1996;4(1):47-54.
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		Chamberlain et al, "Possible arrangement of the five domains in human complement factor I as determined by a combination of X-ray and neutron scattering and homology modeling," <i>Biochemistry</i> . 1998;37:13918-29.
		Cohen, "Epidemiology of Drug Resistance: Implications for a Post-Antimicrobial Era," <i>Science</i> . 1992;257:1050-5.
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		Cowtan et al., "Improvement of Macromolecular Electron-Density Maps by the Simultaneous Application of Real and Reciprocal Space Constraints," <i>Acta Crystallogr D Biol Crystallogr</i> . 1993;49 (Pt 1):148-157.
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	X	GenCore Alignment database search results for various <i>Staphylococcus aureus</i> , dated March 9, 2001.
		Gillet et al., "SPROUT: a program for structure generation," <i>J Comput Aided Mol Des.</i> 1993(2):127-53.
		Goodford, "A computational procedure for determining energetically favorable binding sites on biologically important macromolecules," <i>Med Chem.</i> 1985;28(7):849-57.
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		Maidhof et al., " <i>femA</i> , Which encodes a factor essential for expression of methicillin resistance, affects glycine content of peptidoglycan in methicillin-resistant and methicillin-susceptible <i>Staphylococcus aureus</i> Strains," <i>J. Bacteriol.</i> 1991;173:3507-13.
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		Mattevi et al., "Crystal structures and inhibitor binding in the octameric flavoenzyme vanillyl-alcohol oxidase: the shape of the active-site cavity controls substrate specificity," <i>Structure</i> . 1997;5:907-20.
		Matthews et al., "Three-Dimensional Structure of <i>p</i> -Cresol Methylhydroxylase (Flavocytochrome <i>c</i> ) from <i>Pseudomonas putida</i> at 3.0-Å Resolution," <i>Biochemistry</i> . 1991;30:238-47.
		Meng et al., "Automated Docking with Grid-Based Energy Evaluation," <i>J. Comp. Chem.</i> 1992;13:505-524.
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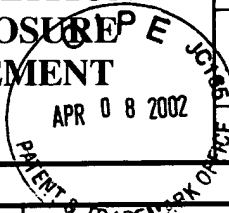
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		Ohringer et al., "Crystallization and preliminary crystallographic analysis of <i>E. coli</i> uridine 5'-diphospho-N-acetylenolpyruvylglucosamine reductase in two new crystal forms," <i>Acta Cryst</i> , 1996;D52:586-588.
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		Sack, "CHAIN-A Crystallographic Modeling Program," <i>J. Mol. Graph.</i> 1988;6:224-25.

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		Sheldrick et al., "Structure Solution by Iterative Peaklist Optimization and Tangent Expansion in Space Group P1," <i>Acta Cryst.</i> 1995;B51:423-31.
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